

## ABSTRACT

A programmable wire structure for an integrated circuit, comprising: a programmable switch coupling two nodes, said switch having a first state that connects said two nodes, and said switch having a second state that disconnects said two nodes;  
5 and a configuration circuit coupled to said programmable switch, said circuit comprising a means to program said switch between said first and second state; and a first metal layer fabricated above a silicon substrate layer, said switch and said configuration circuit fabricated substantially above said first metal layer.

A semiconductor device for integrated circuits with two selectable manufacturing  
10 configurations, comprising: a first module layer having an array of structured cells, said module layer having at least one layer of metal; and a second module layer formed substantially above said first module layer comprising two selectable configurations, wherein: in a first selectable configuration a programmable interconnect structure is formed to connect said structured cells, and in a second selectable configuration a  
15 customized interconnect structure is formed to connect said structured cells.